ABSTRACT OF THE DISCLOSURE

DATA PROCESSING SYSTEM AND METHOD INCLUDED WITHIN AN
OSCILLOSCOPE FOR INDEPENDENTLY TESTING AN INPUT SIGNAL

1   A data processing system and method included within an
2   oscilloscope for independently analyzing a signal input into
3   the oscilloscope. The oscilloscope includes a plurality of
4   triggering modes. A plurality of trigger parameters are
5   specified for each of the triggering modes. Thereafter, the
6   oscilloscope automatically analyzes the input signal,
7   independently from any user input, utilizing each of the
8   triggering modes and the trigger parameters specified for each
9   of the triggering modes. The input signal includes a desired
10 waveform and a plurality of undesired waveforms. While the
11 oscilloscope is automatically analyzing the input signal, a
12 determination is made regarding whether the oscilloscope
13 triggered on one of the undesired waveforms. When it is
14 determined that the oscilloscope triggered on one of the
15 undesired waveforms, the undesired waveform upon which the
16 oscilloscope triggered is stored.